



APPLICANT: ARAM, Nitzan et al.
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AMENDMENTS TO THE CLAIMS

In the Claims:

This listing of claims will replace all prior versions and listings of claims in the application. Please cancel without prejudice or disclaimer to resubmission in a divisional or continuation application claims indicated as cancelled:

1-2. (Canceled).

3. (Previously Presented) In a wireless communication system comprising a base station connected with a mobile unit, a method of detecting and synchronizing with the mobile unit prior to receiving a handoff of a session with the mobile unit, comprising:

from the base station connected with the mobile unit, sending rough synchronization information to at least one neighboring base station;

at the neighboring base station, performing a wide-range search for "target" signals having the correct timing for a mobile unit, based on the rough synchronization information provided by the base station which is connected with the mobile unit;

narrowing the search for an actual signal from the mobile unit;

acquiring the target signal; and

synchronizing the neighboring base station to the base station connected with the mobile unit.

4. (Original) Method, according to claim 3, wherein:

the mobile unit is equipped with a short-range wireless communication transmitter/receiver.

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5. (Original) Method, according to claim 3, wherein the mobile unit is a device selected from the group consisting of:

telephone handset, standard cordless telephone handset, cellular telephone handset, personal data device, personal digital assistant (PDA), computer, laptop computer, e-mail server, a device utilizing point-to-point protocol (PPP) to the Internet via a central remote access server, a headset, a personal server, a wearable computer, a wireless camera, and a mobile music player.

6. (Previously Presented) Method, according to claim 3, further comprising:

providing communication links between the base stations, wherein the communication links between the base stations are selected from the group consisting of RF links and land lines; and

transferring connection status information and rough synchronization information between the base stations over the communications links.

7. (Previously Presented) Method, according to claim 3, wherein:

the base stations and the switch are connected via a wired or wireless local area network (LAN).

8. (Original) Method, according to claim 3, wherein:

the wireless communication system comprises a wireless private branch exchange (WPBX) handling calls from mobile units comprising handsets.

9. (Canceled)

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10. (Currently Amended) In a wireless communication system comprising a base station connected with a mobile unit, a method of synchronizing at least one neighboring base station to the base station connected with the mobile unit, the method comprising:

from the base station connected with the mobile unit, sending call parameters and rough synchronization information to the at least one neighboring base station, said call parameters being related to a connection between the mobile unit and the base station connected with the mobile unit; and

at the at least one neighboring base station, monitoring transmissions of at least one of:

the base station connected with the mobile unit;

the mobile unit; and

a beacon signal from a beacon transmitter which is within range of the at least one neighboring base station and the base station connected with the mobile unit;

wherein the base station connected with the mobile unit sends said call parameters and said rough synchronization information to the at least one neighboring base station over a LAN.

11-16. (Canceled)

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17. (New) In a wireless communication system comprising a base station connected with a mobile unit, a method of synchronizing at least one neighboring base station to the base station connected with the mobile unit, the method comprising:

from the base station connected with the mobile unit, sending call parameters and rough synchronization information to the at least one neighboring base station, said call parameters being related to a connection between the mobile unit and the base station connected with the mobile unit; and

at the at least one neighboring base station, monitoring transmissions of at least one of:

the base station connected with the mobile unit;

the mobile unit; and

a beacon signal from a beacon transmitter which is within range of the at least one neighboring base station and the base station connected with the mobile unit;

wherein said call parameters are related to the connection between the base station connected with the mobile unit and the mobile unit.